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[54] **IMPROVED PROBES USING NUCLEOSIDES CONTAINING 3-DEZAURACIL ANALOGS**

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[58] Field of Search 435/6, 91, 805; 436/501; 536/27-29, 23, 24, 122, 124, 126; 935/78, 88, 86; 546/290, 296, 302, 303, 345, 353

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The deazauracil containing probes of the invention are able to withstand higher temperatures, thereby allowing unmatched probes and mismatched probes to be washed off at higher hybridization stringency, thereby eliminating background readings and improving ease and accuracy of probe use.

25 Claims, No Drawings